

## Mabanol Cut P 466

Mineral oil-based, water-emulsifiable metalworking fluid concentrate

### Application

Mabanol Cut P 466 is a universal metalworking fluid for both freestanding machines and central systems. The water emulsifiable metalworking fluid concentrate is suitable for general up to heavy machining of cast iron, steel and high-alloy steel.

The boric acid and amine-free cooling lubricant is free from formaldehyde releasers and can be used in a variety of ways thanks to a special, high-quality emulsifier system, modern technology and excellent lubricating components. Polar lubricity improvers make the problem-free processing of aluminum and non-ferrous metals possible.

### Properties

Mabanol Cut P 466 ensures good cooling and rinsing properties, good corrosion protection properties and, thanks to its very good technical stability, long emulsion service lives.

Mabanol Cut P 466 produces a stable emulsion in water from 15 - 25 °dH and offers stability in water of up to 60 °dH.

### Remarks

Correct preparation of a fresh solution is ensured by slowly pouring the concentrate into water while stirring continuously. Alternatively, an automatic mixing device may be used. The recommended concentration varies depending on the application and the materials which are machined:

General machining:	from 7%
Heavy duty machining:	from 10%

The concentration of the in-use solution may be verified by using a refractometer. The refractometer reading must be multiplied by the refractometer factor to reach the desired concentration. Based on current industry standards the product can be used for processing of most yellow metals and yellow metal alloys. However the tendency of yellow metals and yellow metal alloys to stain should be verified before use. Minor variations in color and appearance could occur depending on the selected raw materials but have no impact on the functionality of the fluid.

### Data

	Unit	Value
<b>Concentrate</b>		
Mineral oil	%	approx45
Kin. Viscosity at 20 °C	mm <sup>2</sup> /s	218
<b>Emulsion</b>		
pH at 5%		9,4
Corrosion protection DIN 51360/2		4% – note 2 (slight corrosion)
Refractometer factor	%/Brix	0,9

### Shelf life / storage conditions

Stable for 12 months when stored at a temperature of 5 °C to 40 °C in unopened containers

The above values may vary within the commercial limits.  
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